

ABSTRACT

In an optical spectrum analyzer comprising a spectrograph and a photodevice array, and an optical spectrum detecting method, a
5 wavelength deviation, from an assigned wavelength, of a light detected
by a photodevice array which detects a wavelength of a diffraction light
or a non-diffraction light from an acoustooptic device, is detected and a
feedback control to a diffraction angle of the acoustooptic device is
performed. Also, without using a feedback control, an exit light and a
10 diffraction light from the acoustooptic device are respectively received
by two photodevice arrays and the photodevices are arranged in order
to mutually compensate gaps between the photodevices, whereby a
center of each photodevice is similarly made coincide with a peak of an
optical beam to be received.